

DRILL HOLES

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BORDER REV: DATE: JUNE 11, 2004

BY: THOMPSON

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES CONSTRUCTING AN INTERSECTION CONTROL BEACON AT THE INTERSECTION OF US 301 AND CROOM STATION ROAD IN PRINCE GEORGE'S COUNTY. MAST ARM STRUCTURES ARE PROPOSED IN BOTH NOSES OF THE MEDIAN. STREET LIGHTS ARE PROPOSED ON BOTH MAST ARM STRUCTURES. NEW W-BEAM IS PROPOSED IN THE NORTH MEDIAN AND THE EXISTING W-BEAM IN THE SOUTH MEDIAN IS TO BE EXTENDED. US 301 IS ASSUMED TO RUN IN A NORTH - SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL BE EQUIPPED WITH A NEMA EIGHT-PHASE, FULL-TRAFFIC-ACTUATED CONTROLLER HOUSED IN A SIZE 6 BASE MOUNTED CABINET. IT WILL OPERATE IN FLASHING MODE WITH FLASHING YELLOW ON US 301 AND FLASHING RED ON CROOM STATION ROAD.

CONTROLLER REQUIREMENTS

INSTALL A NEW EIGHT-PHASE FULLY ACTUATED TRAFFIC SIGNAL CONTROLLER AND ASSOCIATED HARNESSES IN A NEMA SIZE "6" BASE MOUNTED CABINET.

OTHER

THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410) 787-7635 TO ARRANGE FOR THE PHONE DROP LINE INSTALLATION. THE CONTRACTOR IS TO NOTIFY MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE AND PHONE NUMBER.

THE CONTACT PERSONS FOR DISTRICT #3 ARE AS FOLLOWS:

Mr. Majid Shakib
Assistant District Engineer - Traffic
Phone: 301-513-7358

Mr. Augie Rebish
Assistant District Engineer - Utility
Phone: 301-513-7350

Mr. Wayne Mowdy
Assistant District Engineer - Maintenance
Phone: 301-513-7304

Mr. Richard L. Daff Sr.
Chief, Traffic Operations Division
Phone: 410-787-7630

Mr. Edward Rodenhizer
Chief, SHA Traffic Signal Shop
Phone: 410-787-7650

The Power Company Representative Is:
Potomac Electric Power Company
Eliza Hemingway
4061 Powder Mill Road
Suite 600
Calverton, Maryland 20705
Phone: 301-931-2880

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO	QUANTITY	DESCRIPTION
9044	1 EA	UPDATEDJ CONTROLLER CABINET, SIZE 6
9571	100 SF	UPDATEDJ SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN: 2 EACH - R4-7 (24 IN. X 30 IN.) 2 EACH - D-3(2) (60 IN. X 16 IN.) DUAL FACED "CROOM STATION RD" 4 EACH - SHIELD ASSEMBLY (36 IN. X 75 IN.)

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO	QUANTITY	DESCRIPTION
1001	3 EA	MAINTENANCE OF TRAFFIC
2002	3 CY	TEST PIT EXCAVATION
5006	40 LF	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
6006	425 LF	TRAFFIC BARRIER W BEAM USING 6 FOOT POST
6008	1 EA	TYPE C TRAFFIC BARRIER END TREATMENT
6009	2 EA	TYPE I TRAFFIC BARRIER END TREATMENT
8001	8 CY	CONCRETE FOUNDATION
8029	1 EA	REMOVE AND DISPOSE MATERIAL AND EQUIPMENT PER ASSIGNMENT
8044	225 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8050	125 LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED
8051	120 LF	2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8052	50 LF	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8053	40 LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8058	1 EA	METERED SERVICE PEDESTAL
8067	4 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8070	100 SF	INSTALL OVERHEAD SIGN
8075	1 EA	STEEL POLE WITH TWIN 50 FOOT MAST ARMS
8077	1 EA	STEEL POLE WITH A SINGLE 50 FOOT MAST ARM
8084	2 EA	250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINAIRE
8091	3 EA	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH
8093	8 EA	12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8101	100 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8102	875 LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
8103	450 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG) TC
8107	2 EA	15 FOOT LIGHTING ARM ON SIGNAL STRUCTURE
8112	1 EA	INSTALL CONTROLLER AND CABINET - BASE MOUNT

EQUIPMENT LIST 'C'

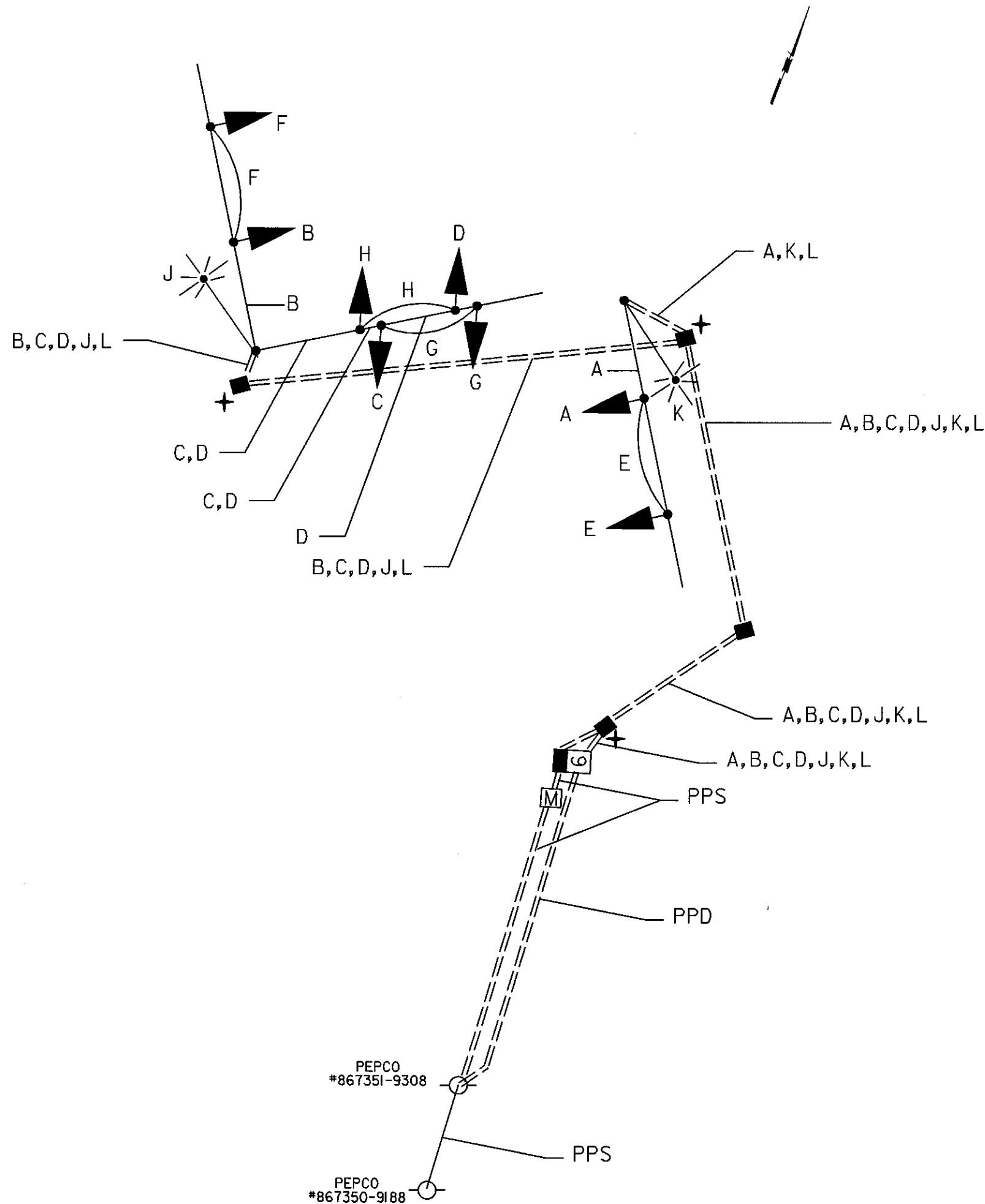
EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

ITEM NO	QUANTITY	DESCRIPTION
NONE	NONE	NONE
ALL REMOVED MATERIALS ARE TO BECOME THE PROPERTY OF THE CONTRACTOR		


PHASE CHART

	1	2	3	4	5	6	7	8	
	(Y)	(Y)	(Y)	(Y)	(R)	(R)	(R)	(R)	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	

WIRING DIAGRAM



- A B C D - ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
- E F G H - ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
- J K - ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG), TC
- L - NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
- + - GROUND ROD - 3/4 INCH X 10 FOOT LENGTH
- PPS - PROPOSED POWER SERVICE TO BE INSTALLED BY PEPCO
- PPD - PROPOSED PHONE DROP TO BE INSTALLED BY OTHERS

**STV Incorporated**
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SHA: PG-558A52/B52 TD: AT718-02

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
US 301 (ROBERT CRAIN HIGHWAY) AND CROOM STATION ROAD

GENERAL INFORMATION

SCALE NONE DATE 3/2005 CONTRACT NO. AT7185185

DESIGNED BY MRK COUNTY PRINCE GEORGE'S
DRAWN BY MRK LOGMILE 16030112.34
CHECKED BY BAB T.I.M.S. NO. G540
F.A.P. NO. TOD NO.

DRAWING NO. **TS-4365** SHEET NO. 2 OF 2